

Eagle Brass 510 Phosphor Bronzes 5% A, Annealed

Category : Metal , Nonferrous Metal , Copper Alloy , Bronze

Material Notes:

Alloy C510 is an alloy with good strength, formability and stress relaxation characteristics, and solderability. Applications include electronic parts, springs, switches, contacts and fasteners. Information provided by Eagle Brass Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eagle-Brass-510-Phosphor-Bronzes-5-A-Annealed.php

Physical Properties	Metric	English	Comments
Density	8.86 g/cc	0.320 lb/in ³	Annealed

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell 30T	34 - 47	34 - 47	Thickness > 0.020 Inch
Tensile Strength, Ultimate	317 - 386 MPa	46000 - 56000 psi	
Tensile Strength, Yield	131 - 200 MPa	19000 - 29000 psi	0.2% offset
Elongation at Break	48 - 62 %	48 - 62 %	in 2 in.
Tensile Modulus	110 GPa	16000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	17.8 $\mu\text{m}/\text{m}\cdot\text{C}$	9.90 $\mu\text{in}/\text{in}\cdot\text{F}$	
	@Temperature 20.0 - 300 °C	@Temperature 68.0 - 572 °F	
Thermal Conductivity	69.2 W/m-K	480 BTU-in/hr-ft ² -°F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	94.9 %	94.9 %	
Phosphorous, P	0.10 %	0.10 %	
Tin, Sn	5.0 %	5.0 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00001187 ohm-cm	0.00001187 ohm-cm	Annealed

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